

CLAIMS

1. Sealing device for roll bearings with a neck seal (4), preceded on the roll barrel side by a ring seal (8), which is permanently connected to a ring-like extension (7) of the bearing housing (5), the sealing lip (18) of the ring seal resting with sealing contact against the end surface (10) of the roll (1), characterized in that a ring profile (11) with an L-shaped cross section is permanently connected by its first sidepiece (12) to the end surface (14) of the roll (1); in that the sealing lip (18) rests on certain areas of the first sidepiece (12); in that the second sidepiece (13) of the L-shaped ring profile (11) extends over the ring seal (8) and part of the ring-like extension (7), leaving a slight gap, thus sealing them off toward the barrel of the roll; and in that the ring-like extension (7) has a drain groove (9), open to the outside, on its external surface.

2. Sealing device according to Claim 1, characterized in that the second sidepiece (13) covers the ring-like extension (7) all the way to the drain groove (9).

3. Sealing device according to Claim 1 or Claim 2, characterized in that the gap between the ring-like extension (7) and the second sidepiece (13) is approximately 0.5-1.5 mm.

4. Sealing device according to one of Claims 1-3, characterized in that the second sidepiece (13) has at least one separator edge (16) in the area of its free end.

5. Sealing device according to at least one of Claims 1-4, characterized in that at least certain areas of the L-shaped ring profile (11) are surface-treated and/or coated.

6. Sealing device according to Claim 5, characterized in that at least the area of the first sidepiece (12) which makes contact with the sealing lip (18) is hardened, e.g., rolled.

7. Sealing device according to Claim 5 or Claim 6, characterized in that at least certain areas of the L-shaped ring profile (11) are plasma-nitrided and/or oxidized in a controlled manner.

8. Sealing device according to at least one of Claims 1-7, characterized in that at least one lubricant reservoir (17) is assigned to the end surface (10) of the roll (1) and/or to the first sidepiece (12), and in that a connection exists between the lubricant reservoir (17) and the contact area of the sealing lip (18) with the first sidepiece (12).